CATALOGUE OF THE NAMES PUBLISHED BY HECTOR LÉVEILLÉ: I

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In 1919 the Royal Botanic Garden obtained through purchase the herbarium of Hector Léveillé. For any student of the flora of Eastern Asia it is an important collection if only for its nomenclatural significance. Between 1894 and 1918, the year of his death, Léveillé published a host of new names, nearly all of them for east asiatic plants and most of them typified by specimens in his herbarium. Type specimens are always important in taxonomy but they are particularly so in the case of the Léveillé herbarium because Léveillé's diagnoses and descriptions were usually grossly inadequate and, what is worse, a very high percentage of his so-called new species were attributed to the wrong genus and, too often, the wrong family. Nor was he innocent of creating his own synonyms and even homonyms. Various adverse comments have been made on Léveillé's work (see Merrill, Index Rafinesqueanus, 45: 1949 and Rock in Fedde, Rep. Sp. Nov. 13, 352: 1914) and it was once suggested that Léveillé's publications should be officially eliminated and his herbarium destroyed, but this is hardly likely to happen now when many of his names have been taken into general use.

In 1929 Alfred Rehder commenced publication of a review of the ligneous plants from Eastern Asia described by Léveillé. He worked over the type material in Léveillé's herbarium, verified or corrected the names and published the results in the Journal of the Arnold Arboretum (10-18, 1929-1937). The herbaceous plants, however, were left untouched and although occasional revisions and monographs have included some of Léveillé's names there has been no complete catalogue and it is only too probable that many epithets have been or are likely to be overlooked because they were attributed by Léveillé to the wrong genus.

This paper is the first of a series in which it is hoped to bring together most of Léveillé's names and indicate our assessment of their correct genus and synonymy. This will be done rather after the style of Rehder's work on the woody plants just mentioned and although Rehder covered each ligneous genus most thoroughly it is some years since his work was pub-

lished and it is therefore considered wise to include nearly all Léveillé's names in this catalogue. Where nomenclatural treatment has been unaltered since Rehder's work we shall confine ourselves to a brief reference to his publication and to any later relevant literature. In other cases we shall give full synonymy and references to major publications.

A full account of Léveillé's life and work has been published (in Bull. Acad. Géogr. Bot. 29, 57-96: 1919) and we need not repeat the details here. He acquired the collections of E. Bodinier, J. Cavalerie, J. Esquirol, U. Faurie, E. E. Maire, T. Taquet and many others, particularly from the Far East. Most of the specimens he cites are to be found in his herbarium but occasionally he apparently based his descriptions on specimens now in other herbaria. Especially is this so in the case of specimens from parts of the world other than Eastern Asia. The many new French species and varieties described by Léveillé will not be included in this catalogue as none of the types are in Edinburgh. In some cases the type specimens, which had at one time been located in his herbarium in Edinburgh, were sent on loan, and during the war were lost or not returned. Where the types have not been located or examined the names based on them will nevertheless be included in this catalogue together with appropriate comments.

The lay-out of the catalogue is as follows: Families will more or less follow the sequence of Bentham and Hooker's Genera Plantarum (1862-83) and within them the genera and species will be treated alphabetically using the name by which we consider the Léveilléan taxon should be correctly known. After this will follow the major and Léveilléan synonyms, the citation of type material and other relevant specimens and, lastly any comments.

There are many hundreds of specimens in the Léveillé herbarium which are not concerned with any of Léveillé's names. Although they are being identified as the work progresses none of these specimens will be cited here.

RANUNCULACEAE

- Aconitum barbatum Pers., Syn. 2, 83 (1807); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 83 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 198 (1949).
- A. luteum Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 46 (1902)—pro parte quoad inflorescentiam.
- CHINA. Pekin, bois dans le Tang-Kéou (Trappistes), sept. 1888, Bodinier s.n. (holo. A. luteum p.p., E).
- A. luteum is not so far listed in Index Kewensis although several other new species in the same paper are. A. luteum is validly described and may have been overlooked because of its position on the page as a footnote. The specimen contains a flowering stem of A. barbatum and two separate leaves of A. kusnezoffit Rchb.
- Aconitum bullatifolium Lévl., Cat. Pl. Yunnan, 218 (1917); Hand.-Mazz., Symb. Sin. 7, 293 (1931) et in Acta Hort. Gotoburg. 13, 90 (1939) pro parte; Fletcher & Lauener in Notes R.B.G. Edinb. 20, 190, Pl. cclxvi, fig. 5 (1949).
- CHINA. Yunnan, pâtures des mont. à Pe-long-tsin, Aconitum nain, vivace, fl. bleues, 3200 m., nov. 1912, *Maire* s.n. (holo. E).
- Aconitum carmichaelii Debx. in Act. Soc. Linn. Bord. 33, 87 (1879);
 Hand.-Mazz. in Acta Hort. Gotoburg. 13, 117 (1939);
 Fletcher & Lauener in Notes R.B.G. Edinb. 20, 200 (1949).
- A. bodinieri Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 45 (1902); Lévl., Fl. Kouy-Tchéou, 327 (1915).
- A. kusnezoffii Rohb. var. bodinieri (Lévl. & Van.) Fin. & Gagnep. in Bull. Soc. Bot. Fr. 51, 508 (1904) et Contr. Fl. As. Or. 1, 205 (1905); Lévl., Pl. Seu-Tchouen, 142 (1918).
- CHINA. Kweichow, environs de Gan-pin, Kouy-yang, etc., commun

partout dans la mont., grandes fleurs bleu-foncées, 20 sept. 1897, Martin & Bodinier 1885 (holo, A. bodinieri, E).

- 4. Aconitum cavaleriei Lévl. & Van. in Bull. Soc. Agric. Sci. Arts Sarthe, 40, 78 (1905) et in Fedde, Rep. Sp. Nov. 2, 174 (1906); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 79 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 192, Pl. cclxvi, fig. 7 (1949).
- "A. scaposum Franch."; Lévl. in Bull. Acad. Géog. Bot. 11, 46 (1902) quoad Martin & Bodinier 1886.
- "A. ranunculoideum Turcz."; Lévl., Fl. Kouy-Tchéou, 328 (1915).

CHINA. Kweichow, Pin-fa, ruisseaux, fl. viol., mai 1903, Cavalerie 708 (holo. A. cavaleriei, E). Kweichow, environs de Gan-pin, à l'entrée d'une grotte, poussant sur les rochers, rare, fleurs d'un bleu violette, 26 sept. 1897, Martin & Bodinier 1886 (E).

M. & B. 1886 was identified by Léveillé & Vaniot as A. scaposum before A. cavaleriei was described but it matches the type of the latter species.

- Aconitum chinense Paxt., Mag. Bot. 5, 3, t.3 (1838); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 115 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 200 (1949).
- A. fauriei Lévl. & Van. in Bull. Soc. Agric. Sci. Arts Sarthe, 40, 77 (1905) et in Fedde, Rep. Sp. Nov. 2, 173 (1906); Nakai in Rep. 1st Sc. Exped. Manchoukuo, 1933, sect. 4, 2, 159 (1935); Kitagawa in Rep. Inst. Sci. Res. Manch. 3, App. I, 208 (1939); Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 32, 48 (1935).

JAPAN. Aomori, herbier kinashi, oct. 1900, Faurie 3 (holo. A. fauriei, E).

- Aconitum coreanum (Lévl.) Rap. in Növ. Közl., 6, 154 (1907) ("koreanum"); Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909); Nakai in Rep. 1st Sc. Exped. Manchoukuo, 1933, sect. 4, 2, 151 (1935); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 85 (1939); Kitagawa in Rep. Inst. Sci. Res. Manch. 3, App. 1, 209 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 200 (1949); Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 32, 16 (1953).
- A. delavayi Franch. var. coreanum Lévl. in Bull. Acad. Géog. Bot. 11, 300 (1902).
- A. komarovii Steinb. in Komarov, Fl. U.S.S.R. 7, 191 (1937).
- Korea. In montibus interioribus regionis frequenter, 4 sept. 1901, Faurie 28 (holo. A. coreanum, E).
- Aconitum delavayi Franch. var. leiocarpum Fin. & Gagnep. in Bull. Soc. Bot. Fr. 51, 507 (1904) et Contr. Fl. As. Or., 1, 204 (1905); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 194 (1949).
- A. episcopale Lévl. in Fedde, Rep. Sp. Nov. 13, 341 (1914) et Cat. Pl. Yunnan, 218 (1917).
- CHINA. Yunnan, brousse de Lan-gui-tsin, Aconitum vivace grimpant, fl. violettes, 3000 m., oct. *Maire* s.n. (holo. *A. episcopale*, E).
- Aconitum duclouxii Lévl. in Fedde, Rep. Sp. Nov. 7, 99 (1909); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 189, Pl. cclxvi, fig. 14 (1949).

A. napellus var. acaule Fin. & Gagnep. in Bull. Soc. Bot. Fr. 51, 512 (1904) et Contr. Fl. As. Or. 1, 209 (1905).

A. acaule (Fin. & Gagnep.) Diels in Notes R.B.G. Edinb. 5, 270 (1912) excl. descr. et specim.

CHINA. Yunnan, Chao-Chang, près Pin-Tchouan, août 1906, Jean Py 576 (holo. A. duclouxii, E).

Aconitum gigas Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 389 (1906);
 Nakai in Bot. Mag. Tokyo, 25, 53 (1911), 31, 223 (1917) (sub A. umbroso (Korsch.) Kom.), et 49, 581 (1935);
 Hara in Bot. Mag. Tokyo, 52, 623 (1938);
 Ohwi, Fl. Jap. 533 (1956).

Lycoctonum gigas (Lévl. & Van.) Nakai in Journ. Jap. Bot. 13, 406 (1937) et in Bull. Nat. Sci. Mus. Tokyo, No. 32, 15 (1953).

Japan. Yezo, in silvis Jirafu, juin 1905, Faurie 6934 (holo. A. gigas—n.v.). Sachalin. In humidis silvarum Vladimirof, juill. 1908, Faurie 461 (E).

Aconitum jucundum Diels in Notes R.B.G. Edinb. 5, 266 (1912); Hand-Mazz. in Acta Hort. Gotoburg, 13, 78 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 192. Pl. celxvi, fig. 8 (1949).

A. lycoctonum var. circinatum Lévl. in Fedde, Rep. Sp. Nov. 7, 258 (1909) et Fl. Kouy-Tchéou, 328 (1915).

CHINA. Kweichow, Pin-fa, toujours près des ruisseaux, aout 1908, Cavalerie, s.n. (holo. A. lycoctonum var. circinatum, E.). Pin-fa, endroits humides, beau violet, cascade, 1905, Cavalerie, s.n.

This is a dwarf form of A. jucundum Diels.

 Aconitum kusnezoffii Rchb., Ill. Sp. Acon. Gen., 21 (1827); Lévl. in Bull. Acad. Géog. Bot. 27, 83 (1917); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 113 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 203 (1950).

A. luteum Lévi. & Van. in Bull. Acad. Géog. Bot., 11, 46 (1902)—proparte, quoad fol.

CHINA. Pekin, bois dans le Tang-kéou (Trappistes), sept. 1888, Bodinier, s.n. (holo. A. luteum p.p., E).

See note under 1, A. barbatum.

- Aconitum napiforme Lévl. & Van. in Fedde, Rep. Sp. Nov. 5, 9 (1908).
 An napellus L. var. alimbum Lévl. in Fedde, Rep. Sp. Nov. 7, 102 (1909).
 KOREA. Quelpaert, in silvis, 1200 m., oct. 1906, Faurie 165, 169 (synt. A. napiforme, E); in herbidis, oct. 1906, Faurie 166 (holo. A. napellus var. alimbum, E).
- Aconitum neo-sachalinense Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909); Nakai in Bot. Mag. Tokyo 31, 229 (1917) et in Bull. Nat. Sci. Mus. Tokyo, No. 32, 25 (1953).

SACHALIN. Sine loc., sept. 1908, Faurie (holo. A. neo-sachalinense, E).

Aconitum racemulosum Franch. in Journ. de Bot. 8, 276 (1894); Hand-Mazz. in Acta Hort. Gotoburg. 13, 131 (1939); Fletcher & Lauener in Notes R.B.G. Edinb. 20, 204 (1949).

A. coriaceum Lévl. in Fedde, Rep. Sp. Nov. 7, 257 (1909) et Fl. Kouy-Tchéou, 328 (1915).

CHINA. Kweichow, Ma-Jo, rochers humides, 14 nov., Cavalerie 3034 (holo. A. coriaceum, E).

Aconitum vilmorinianum Komar. in Fedde, Rep. Sp. Nov. 7, 145 (1909);
 Hand.-Mazz. in Acta Hort. Gotoburg. 13, 131 (1939);
 Fletcher & Lauener in Notes R.B.G. Edinb. 20, 205 (1949).

A. mairei Lévl. in Fedde, Rep. Sp. Nov. 13, 341 (1914) et Cat. Pl. Yunnan, 218 (1917).

CHINA. Yunnan, brousse de Lan-gui-tsin, vivace, grimpant, fleurs violettes, 3000 m., oct., *Maire* s.n. (holo. *A. mairei*, E).

Aconitum zigzag Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 390 (1906);
 Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 32, 45 (1953).

JAPAN. In Komagatake, 2500 m., sept. 1905, Faurie 6935 (holo. A. zigzag—n.v.).

This species is queried as synonymous with A. senanense Nakai (1908) by Ohwi in his Flora of Japan (534: 1953) but A. zigzag Lévl. & Van. was published in 1906.

Anemone begoniifolia Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 46 (1902) et 15, p. viii (1905); Lévl., Fl. Kouy-Tchéou, 329 (1915); Hand-Mazz. in Acta Hort. Gotoburg. 13, 179 (1939).

A. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9, 446 (1911) non 1910.
A. bodinieri Lévl., Fl. Kouy-Tchéou, 329 (1915).

CHINA. Kweichow, Tou-chan, avril 1899, Cavalerie & Bodinier 2600 (holo. A. begoniifolia, E); Grotte de Gai-kia, 3 mai 1910, Esquirol 2101 (holo. A. bodhieri, E).

Léveillé used the name A. esquirolii twice, on the first occasion to describe Esquirol 1534, which is A. rivulairs Buch-Ham, and on the second occasion to describe Esquirol 2101. When writing his Flora of Kweichow he realised he had used the same name twice for different plants and rectified it by using the name A. bodnieri fine Tesquirol 2101. However, this collection matches the type of A. begonitfolia and A. bodnieri falls into synonymy.

Anemone demissa Hook. f. & Thoms., Fl. Ind. 1, 12 (1855); Lévl., Cat.
 Pl. Yunnan, 219 (1917); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 180 (1939).

A. bicolor Lévl. in Bull. Acad. Géog. Bot. 24, 42 (1915) et Cat. Pl. Yunnan, 219 (1917).

CHINA. Yunnan, Lan-ngi-tsin, Ranunculus vivace, fl. blanches, violettes à l'extérieur, pâturages des mont., 3100 m., juin 1913, *Maire* s.n. (holo *A. bicolor*, E).

 Anemone hupehensis Lemoine var. japonica (Thunb.) Bowles & Stearn in Journ. Roy. Hort. Soc. 72, 265 (1947).

A. scabiosa Lévl. & Van. in Bull. Acad. Géog. Bot., 11, 47 (1902) (lusus teratologicus valde abnormalis).

CHINA. Kweichow, Tou-chan, Cavalerie s.n. (holo. A. scabiosa, E).

- Anemone millefolium Hemisl. & Wils. in Kew Bull. 149 (1906); Lévl., Cat. Pl. Yunnan, 219 (1917); Aichele & Schwegler in Fedde, Rep. Sp. Nov., 60, 117 (1957).
- A. mairei Lévl. in Bull. Acad. Géog. Bot. 22, 228 (1912) et Cat. Pl. Yunnan, 219 (1917).
- CHINA. Yunnan, collines arides, calcaires à Pan Pien Kai, 2500 m., sept. 1911, Maire s.n. (holo. A. mairei, E).
 - Anemone obtusiloba D. Don subsp. ovalifolia Brühl in Ann. Roy. Bot. Gard. Calc. 5 (2), 78 (1896); Lauener in Notes R.B.G. Edinb. 23, 189 (1960)
 - A. geum Lévl. in Bull. Acad. Géog. Bot. 25, 25 (1915); Comber in Notes R.B.G. Edinb. 18, 229 (1934); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 177 (1939).
- A. bonatiana Lévl. var. geum (Lévl.) Lévl., Cat. Pl. Yunnan, 219 (1917). CHINA. Yunnan, Ta-hai-tse, lagune du haut plateau, Renoncule vivace, toute ciliée, fl. blanches, 3200 m., Maire s.n. (holo. A. geum, E).
- Anemone rivularis Buch.-Ham. in DC., Reg. Veg. Syst. Nat. 1, 211 (1818); Fin. & Gagnep. in Bull. Soc. Bot. Fr. 51, 72 (1904) et Contr.
 Fl. As. Or. 1, 84 (1905); Lévl., Fl. Kouy-Tchéou, 329 (1915), Cat. Pl. Yunnan, 219 (1917), in Bull. Acad. Géog. Bot. 27, 83, (1917) et Pl. Seu-Tchouen, 144 (1918); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 176 (1939).
- "A. silvestris L."; Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 47 (1902).
- A. leveillei Ulbrich in Bot. Jahrb. 36, Beibl. lxxx, 5 (1905); Lévl., Fl. Kouy-Tchéou, 329 (1915) et Cat. Pl. Yunnan, 219 (1917).
- A. saniculifolia Lévl. in Fedde, Rep. Sp. Nov. 7, 383 (1909).
- A. esquirolii Lévl. & Van. in Fedde, Rep. Sp. Nov. 8, 58 (1910) non Lévl. (1911).
- CHINA. Yunnan, prairie des montagnes, fl. blanches, mai 1905, Maire 390 (synt. A. saniculifolia, E); Maire 375, 391 (synt. A. saniculifolia—n.v.).
- Kweichow, Hoang-Tiao-Pa, pelouses, ruisseaux, juin 1909, Esquirol 1534 (holo. A. esquirolii (1910), E).
- In the Edinburgh herbarium there is a Bodinier specimen numbered 1505 from Yunnan (Mont. entre Ma-Kay et Le Hong, 6.4.1897) which bears the names A. leveillei Ulbrich & A. silvestris L. in Léveillé's handwriting. The type of A. leveillei is Bodinier 1909 from Hin-y-hien in Kweichow, which we have not seen.
- Anemone trullifolia Hook. f. & Thoms., Fl. Ind. 1, 22 (1855); Lauener in Notes R.B.G. Edinb. 23, 194 (1960).
- A. coelestina Franch. in Bull. Soc. Bot. Fr. 32, 4 (1885); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 178 (1939).
- A. bonatiana Lévl. in Fedde, Rep. Sp. Nov. 7, 98 (1909) et Cat. Pl. Yunnan, 219 (1917).
- CHINA. Yunnan, Lao-Kouy-Chan, près My-Le, Paul Ngueou 607 (holo. A. bonatiana, E).
- Aquilegia fauriei Lévl. in Bull. Acad. Géog. Bot. 11, 300 (1902) non 1906; Munz in Gentes Herbarum, 7, 144 (1946).

KOREA. Chemulpo, collines, en fleurs, juin 1901, Faurie 17; collines de

Pyeng-yang, juill. 1901, en fruits, Faurie 18 (synt,-n.v.).

In his paper Munz points out that this species is described as having pinnate leaves, spicate inflorescence, oblong-acuminate petals, and is not an Aquilegia. He has seen no material nor found any reference to another

We have not seen the types either and the species is included here for reference purposes only.

- 25. Aquilegia flabellata Sieb. & Zucc. in Abh. Akad. Muench. ser. 4, 2, 183, fig. 6 (1846); Munz in Gentes Herbarum, 7, 28 (1946); Ohwi, Fl. Jap. 532 (1956).
- A. fauriei Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 389 (1906) non Lévl.

JAPAN. Yeso, in Shiribeshi, 1800 m., rara, juill. 1905, Faurie 6937 (holo. A. fauriei-n.v.).

26. Asteropyrum cavaleriei (Lévl. & Van.) Drumm. & Hutch. in Kew Bull. 156 (1920).

Isopvrum cavaleriei Lévl. & Van. in Bull. Soc. Bot. Fr. 51, 289 (1904); Lévl., Fl. Kouy-Tchéou, 336 (1915).

CHINA. Kweichow, Pin-fa, chutes d'eau, 11 mars 1902, Cavalerie 1345 (holo, A. cavaleriei, E).

Bodiniera thalictrifolia Lévl. & Van.=Boenninghausenia albiflora (Rutaceae).

27. Callianthemum pimpinelloides (Don) Hook. f. & Thoms. Fl. Ind. 1, 26 (1855).

Ranunculus pimpinelloides Don in Royle, Ill. Bot. Himal. 53 (1834).

?Ranunculus (Callianthemum) bonatii Lévl. in Fedde, Rep. Sp. Nov. 7, 383 (1909).

CHINA. Yunnan, Lao-Kouy-Chan, près My-Le, 8 mars 1908, Paul Ngueou ex Ducloux 887 (holo, R. bonatii-n.v.).

Although we have not seen the type there is a specimen bearing the name Callianthemum "bonatianum" in Léveillé's handwriting which Handel-Mazzetti has identified as C. pimpinelloides. Léveillé's species is therefore placed here but with some doubt.

28. Caltha fistulosa Schipcz. in Not. Syst. Herb. Hort. Petrop. 2, 166 (1921); Komarov, Fl. U.S.S.R. 7, 38 (1937).

C. palustris L. var. barthei Hance in Ann. Sci. Nat. ser. 8, 5, 205 (1866). C. palustris L. f. gigas Lévl. in Fedde, Rep. Sp. Nov. 7, 102 (1909).

C. barthei (Hance) Koidz, in Fl. Symb. Or. As. 77 (1930). SACHALIN. Secus aquas vivas Korsakof, juin 1908, Faurie 453 (holo. C. palustris f. gigas, E).

Faurie 453 in Edinburgh was determined and quoted by Koidzumi as Caltha barthei.

29. Cimicifuga foetida Linn., Syst. Nat. ed. 12, 659 (1767); Huth in Bot. Jahrb. 16, 317 (1892-93).

"C. dahurica Huth"; Lévl. in Bull. Acad. Géog. Bot. 11, 301 (1902).
C. mairei Lévl. in Bull. Acad. Géog. Bot. 25, 43 (1915) et Cat. Pl. Yunnan, 220 (1917).

CHINA. Yunnan, sous bois de Kiao-me-ti, plante vivace, fl. vertes, 3100 m., nov., *Maire* s.n.; brousse des rochers à Ma-hong, grande spirée vivace, haut 1-90 m., fl. jaunes, étamines blanches, 2800 m., août, *Maire* s.n. (synt. *C. mairei*, E).

KOREA. In Kan-ouen-to, videtur frequenter in declivitatibus, sept. 1901, Faurie 220 (E).

Léveillé's holotypes usually bear his handwriting on the label. The two Maire specimens in the Edinburgh Harbarium do not, but the labels are those of C. mairei and, as indicated in his description, the Kiao-me-ti specimen is in fruit and the other in flower.

Cimicifuga taquetii Lévl. in Fedde, Rep. Sp. Nov. 9, 448 (1911).
 KOREA. Quelpaert N., in sylvis, 1500 m., oct. 1910, Taquet 4106 (holo. C. taquetii, E).

This species is distinguished by its 4-5 long-stalked and hairy carpels. The mature carpels are shorter than those of *C. foetida* being more than 7 mm. long and the seeds too are different. In *C. taquetii* they are squamulose in the centre with a distinct ring of larger scales round the margin, whilst in *C. foetida* they are squamose all over.

- Clematis brevicaudata DC. var. ganpiniana (Lévl. & Van.) Hand.-Mazz. in Acta Hort. Gotoburg, 13, 215 (1939).
- C. vitalba var. ganpiniana Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 167 (1902).
- C. parviloba Gardn. & Champ. var. glabrescens Finet & Gagnep. in Bull. Soc. Bot. Fr. 50, 534 (1903) et Contr. Fl. As. Or. 1, 19 (1905); Lévl., Fl. Kouy-Tchéou, 333 (1915) et Cat. Pl. Yunnan, 222 (1917).
- C. parviloba Gardn. & Champ. var. ganpiniana (Lévl. & Van.) Rehder in Journ. Arn. Arb. 17, 319 (1936).
- C. ganpiniana (Lévl. & Van.) Tamura in Acta Phytotax. Geobot. 15, 17 (1953).

China. Kweichow, environs de Gan-pin, liane sous ligneuse, dans les buissons, 10 août 1877, Martin & Bodinier 1788 (synt. var. gampiniana, E); dans les haies de la montagne, fleurs blanches, 4 août 1897, Martin & Bodinier 1882 (synt. var. gampiniana, E); 4 sept. 1897, Martin & Bodinier 1883 (synt. var. gampiniana, E).

In the autographed "Catalogue illustré et alphabetique des plantes du Seu Tchouen", written by Léveillé at Le Mans in 1918, he lists a variety ganpiniana of C. parviloba. We do not know whether this is a completely new variety or an earlier transference to C. parviloba as carried out by Rehder in 1936.

- 32. Clematis chinensis Osbeck; Rehder in Journ. Arn. Arb. 10, 187 (1929).
- C. funebris Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 168 (1902).
 C. oligocarpa Lévl. & Van. in Bull. Acad. Géog. Bot. 17, No. 210-211,p. ii
- C. oligocarpa Lévl. & Van. in Bull. Acad. Géog. Bot. 17, No. 210-211,p. i (1907); Lévl., Fl. Kouy-Tchéou, 333 (1915).
- C. cavaleriei Lévl. & Porter in Fedde, Rep. Sp. Nov. 9, 20 (1910); Lévl., Fl. Kouy-Tchéou, 332 (1915).

- Clematis clarkeana Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 170 (1902); Lévl. Fl. Kouy-Tchéou, 332 (1915) et Cat. Pl. Yunnan, 221, fig. 56 (1917); Rehder in Journ. Arn. Arb. 10, 185 (1929); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 193 (1939).
- Clematis connata DC. Prodr., 1, 4 (1824); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 192 (1939).
- C. buchananiana var. trullifera Franch., Pl. Delavay. 3 (1889).
- C. trullifera (Franch.) Fin. & Gagnep. in Bull. Soc. Bot. Fr. 50, 547 (1903) et Contr. Fl. As. Or. 1, 32 (1905); Lévl., Cat. Pl. Yunnan, 222 (1917); Hand.-Mazz. Symb. Sin. 7, 319 (1929); Rehder in Journ. Arn. Arb. 17, 318 (1936).
- C. coriigera Lévl. in Fedde, Rep. Sp. Nov. 12, 281 (1913).
- CHINA. Yunnan, haies, plaine de Tong-tchouan, clematis grimpant à longs rameaux, fl. jaunes, 2500 m., sept., *Maire* s.n. (holo. *C. coriigera*, E). There are several other Maire collectings of *C. connata* in Herb. Léveillé.
- Clematis finetiana Lévl. & Van. in Bull. Soc. Bot. Fr. 51, 219 (1904);
 Lévl., Fl. Kouy-Tchéou, 332 (1915);
 Hand.-Mazz. in Acta Hort. Gotoburg. 13, 207 (1939).
- C. pavoliniana Pampanini in Nuov. Giorn. Bot. Ital. 2 ser. 17, 290 (1910); Rehder in Journ. Arn. Arb. 10, 187 (1929) et 18, 256 (1937); Chun in Sunyatsenia, 1, 231 (1934).
- CHINA, Kweichow, Pin-fa, fl. blanches, 5 mai 1902, Cavalerie 1347; borde des ruisseaux, 5 oct. 1902, Cavalerie 605 (synt. C. finetiana, E).
 Also belonging here are Cavalerie 1013 and Esquirol 384 (E).
- Clematis fusca Turcz.; Rehder in Journ. Arn. Arb. 10, 185 (1929).
 C. coreana Lévl, in Bull. Acad. Géog. Bot. 11, 298 (1902).
- Clematis gouriana Roxb. ex DC.; Rehder in Journ. Arn. Arb. 10, 188 (1929) et 17, 318 (1936).
- C. vitalba L. var. micrantha Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 167 (1902); Lévl., Cat. Pl. Yunnan, 222 (1917).
- C. martini Lévl. in Bull. Acad. Géog. Bot. 17, no. 210-211, p. ii (1907) et Fl. Kouy-Tchéou, 333 (1915).
- Clematis grata var. argentilucida (Lévl. & Van.) Rehder in Journ. Arn. Arb. 17, 318 (1936).
- C. vitalba L. var. argentilucida Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 167 (1902).
- Clematis ibarensis Bak. subsp. edentata (Baker) H. Perr. in Humbert,
 Fl. de Madagascar, Fam. 76 (Ranunculaceae), 10 (1950).
- C. edentata Bak. in Journ. Linn. Soc. 21, 318 (1884).
- C. perrieri Lévl. in Fedde, Rep. Sp. Nov. 7, 99 (1909).
- C. perrieri Lévl. var. parvifolia Lévl. in Fedde, Rep. Sp. Nov. 7, 100 (1909).
- C. bi-perrieri Lévl. in Bull. Acad. Géog. Bot. 27, 4 (1917).
- Types of these names have not been seen. They are presumably in the Paris Herbarium.

- Clematis kirilowii Maxim. var. chanetii (Lévl.) Hand.-Mazz. in Acta Hort. Gotoburg. 13, 205 (1939).
- C. chanetii Lévl. in Fedde, Rep. Sp. Nov. 11, 495 (1913) et in Bull. Acad. Géog. Bot. 27, 83 (1917); Rehder in Journ. Arn. Arb. 10, 188 (1929).
 CHINA. Hopei, Tche Ly, Kia Chan, août 1910, Chanet 560 (holo. C. chanetii. E).
- Clematis lancifolia Bur. et Franch. in Journ. de Bot. 5, 18 (1891);
 Hand.-Mazz. in Acta Hort. Gotoburg. 13, 204 (1939).
- C. duclouxii Lévl. in Fedde, Rep. Sp. Nov. 7, 97 (1909) et Cat. Pl. Yunnan 220 (1917); Rehder in Journ. Arn. Arb. 10, 187 (1929).
- CHINA. Yunnan, Tso-kio, sur la route de Yunnan-sen, à Houy-ly-tchéou, mars 1907, Martin 575 (holo. C. duclouxii, E).
- Clematis leschenaultiana DC.; Rehder in Journ. Arn. Arb. 10, 186 (1929).
- C. splendens Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 171 (1902) excl. spec. Bodinier 2024.
- Clematis loureiriana DC. var. subpeltata (Wall.) Hand.-Mazz. in Acta Hort. Gotoburg. 13, 219 (1939).
- C. subpeltata Wall., Pl. As. Rar. 1, tab. 30 (1830).
- C. smilacifolia Wall. var. subpeltaía (Wall.) O. Ktze. in Verh. Bot. Ver. Brandenbg. 26, 121 (1885); Ulbrich in Notizbl. Bot. Gart. Berl. 9, 227 (1925).
- C. esquirolii Lévl. & Van. in Bull. Herb. Boiss. sér. 2, 6, 504 (1906); Lévl., Fl. Kouy-Tchéou, 332 (1915).
- "C. smilacifolia Wall."; Rehder in Journ. Arn. Arb. 10, 187 (1929).
- CHINA. Kweichow, Pin-tong, fleur cramoisie, trés caduques, coteaux découverts, 25 dec. 1904, Esquirol 264 (holo. C. esquiroli, E). Lo-fou, rouge-noir, mars 1909. Cavalerie 3578 (E), and Route Lo-fou, Pien-yang, fl. noire-violacée, oct. 1905, Cavalerie 2663 (E).
- Clematis maximowicziana Franchet & Savatier var. robusta (Carrière)
 Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 33, 7 (1953).
- C. paniculata Thunb. in Trans. Linn. Soc. 2, 337 (1794) non Gmel. (1791); Lévl., Cat. Pl. Yunnan, 222 (1917).
- C. flammula var. robusta Carr. in Rev. Hort. 46, 465, fig. 59 (1874).
- C. dioscoreifolia Lévl. & Van. in Fedde, Rep. Sp. Nov. 7, 339 (1909); Nakai in Journ. Coll. Sci. Univ. Tokyo, 31, 427 (1911).
- C. paniculata Thunb. var. dioscoreifolia (Lévl. & Van.) Rehder in Journ. Arn. Arb. 1, 195 (1920) et 10, 188 (1929).
 C. dioscoreifolia Lévl. & Van. var. robusta (Carr.) Rehd. in Journ. Arn.
- Arb. 26, 70 (1945).

 C. maximowicziana Franch. & Savat, var. dioscoreifolia (Lévl. & Van.);
- Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 31, 27 (1952). C. terniflora DC. var. robusta (Carr.) Tamura in Acta Phytotax. Geobot.
- 15, 18 (1953). Korea. Quelpaert, in sepibus Hongno, 2 sept. 1908, Taquet 502 (holo. C. dioscoreifolia, E).

Other specimens from Korea in the Léveillé Herbarium at Edinburgh are Faurie 15, 16, 140 and Taquet 172. Faurie 15 and 140 are cited by Ohwi with his original description of C. papuligera Ohwi which is treated by Tamura (l.c.) as C. terniflora DC. var. koreana (Nak.) Tamura.

Clematis paniculata Thunb. is a later homonym of C. paniculata Gmel. which equals C. indivisa Willd. from New Zealand. Nakai has pointed out that C. maximowiczlana is the earliest legitimate name for a form of C. paniculata Thunb. Type material of C. maximowiczlana Franch. & Savat. (Savateir 7 in Herb. Paris) shows a plant with small, narrow, biternate cuneate-based leaves; the largest leaflet, although not of a sterile shoot, is 3-5 cm. long×1 cm. broad. Carrière's var. robusta was described as having the largest leaves of the sterile shoot about 7 cm. long×4 cm. broad. To some extent C. dioscoreifolia falls between these measurements, and Nakai's reduction in 1952 of Léveille's plant to a variety of C. maximowicziana might be the correct treatment, but the whole species which used to be known as C. paniculata Thunb. is very variable and the recognition of varieties on herbarium material alone is of doubfful value.

Tamura places this variety under C. terniflora DC., an earlier name than that of Franchet & Savatier, although other authors have treated them as distinct. Finet & Gagnepain (in Bull. Soc. Bot. Fr. 50, 535: 1903, and Contr. Fl. As. Or. 1, 20: 1905) have sunk C. paniculata Thunb. under C. recta L. and cited Faurie 16.

- Clematis montana Buch.-Ham. ex DC., Syst. 1, 164 (1818); Rehder in Journ. Arn. Arb. 10, 186 (1929); Wang in Acta Phytotax. Sin. 6, 380 (1957).
- C. kuntziana Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 171 (1902).

Finet & Gagnepain referred C. kuntziana to C. montana. Rehder had not seen the type specimen Bodinier 1576. It is in the Edinburgh Herbarium and there is no doubt that Finet & Gagnepain were correct.

- Clematis orientalis Linn. subsp. simensis (Fresen.) H. Perr. in Humbert, Fl. Madagascar, Fam. 76 (Ranunculaceae), 13 (1950).
- C. simensis Fresen, in Mus. Senck. 2, 267 (1837).
- C. bathiei Lévl. in Bull. Acad. Géog. Bot. 27, 3 (1917).

The type of this species has not been seen. It is presumably in the Paris Herbarium.

- Clematis ranunculoides Franch. in Bull. Soc. Bot. Fr. 33, 360 (1886);
 Hand.-Mazz. in Acta Hort. Gotoburg. 13, 195 (1939).
- C. pterantha Dunn in Hook. Icon. Pl. 28, t. 2713 (1901); Rehder in Journ. Arn. Arb. 10, 186 (1929); Lévil, Fl. Kouy-Tchéou, 333 (1915).
- C. philippiana Lévl. in Bull. Acad. Géog. Bot. 11, 169 (1902).
- CHINA. Kweichow, environs de Lo-pie (Tchen-liu-tchéou), bords de la route, haies, 6 oct. 1897, Martin & Bodinier 1992 (holo. C. philippiana, E).
- Clematis ranunculoides Franch. var. tomentosa Finet & Gagnep.; Rehder in Journ. Arn. Arb. 17, 317 (1936); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 195 (1939).

C. urophylla Franch, var. heterophylla Lévl, in Bull, Acad, Géog, Bot, 17, no. 210-211, p. ii (1907).

?C. mairei Lévl. in Fedde, Rep. Sp. Nov. 7, 337 (1909) et Cat. Pl. Yunnan. 222, (1917).

Rehder states that the type of C. mairei cannot be located in the Herb. Léveillé and according to the description it probably belongs here. We also have been unable so far to locate this type.

- 49. Clematis rubifolia Wright; Rehder in Journ. Arn. Arb. 10, 186 (1929). C. splendens Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 171 (1902) excl. spec. Bodinier nos. 2248 et 2248 bis.
- 50. Clematis uncinata Champ.; Lévl., Fl. Kouy-Tchéou, 334 (1915); Rehder in Journ. Arn. Arb. 10, 188 (1929).
- C. drakeana Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 168 (1902).
- C. gagnepainiana Lévl. & Van. in Bull. Soc. Bot. Fr. 51, 219 (1904); Lévl., Fl. Kouy-Tchéou, 332 (1915).

Wang (in Acta Phytotax. Sinica, 6, 375:1957) queries C. gagnepainiana as a possible synonym of C. uncinata var. coriacea Pamp.

- 51. Clematis vaniotii Lévl. & Port. in Fedde, Rep. Sp. Nov. 9, 20 (1910); Lévl., Fl. Kouy-Tchéou, 334 (1915); Rehder in Journ. Arn. Arb. 10, 186 (1929); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 209 (1939).
- 52 Contis teeta Wall, var. chinensis (Franch.) Fin. & Gagnen, in Bull. Soc. Bot. France, 51, 402 (1904) et Contr. Fl. As. Or. 1, 145 (1905). C. chinensis Franch. in Journ. de Bot. 11, 231 (1897).

C. teeta Wall, var. chinensis (Franch.) Fin. & Gagnep. subvar. rhizomatosa Lévl. in Fedde, Rep. Sp. Nov. 7, 258 (1909) et Fl. Kouy-Tchéou, 334

CHINA. Kweichow, Ma-Jo, avril-mai 1908, Cavalerie 3031 (holo. C. teeta subvar. rhizomatosa, E).

Other Chinese material shows that Léveillé's distinction of horizontal rhizomes is of no taxonomic significance.

- 53. Delphinium anthriscifolium Hance in Journ. Bot. 6, 207 (1868).
- D. cavaleriense Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 49 (1902) et 15, p. vii (1905); Lévl., Fl. Kouy-Tchéou, 335 (1915).
- D. cerefolium Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 49 (1902); Lévl., Fl. Kouy-Tchéou, 335 (1915).

CHINA, Kweichow, environs de Tou-chan, belles fleurs bleues, 2 juin 1898, Cavalerie 2344 (holo. D. cavaleriense, E); Kouy-Yang, mont du Collège 2 juin 1898, Chaffanjon s.n. (holo. D. cerefolium, E).

- 54. Delphinium anthriscifolium Hance var. calleryi (Franch.) Fin. & Gagnep. in Bull. Soc. Bot. Fr. 51, 471 (1904) et Contr. Fl. As. Or. 1, 168 (1905); Lévl., Fl. Kouy-Tchéou, 335 (1915).
- D. callervi Franch. in Bull. Soc. Linn. Paris, 1, 329 (1882) et in Bull. Soc. Philom. Paris, 5, 161 (1893); Huth in Bot. Jahrb. 20, 423 (1895). D. robertianum Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 49 (1902).
- D. minutum Lévl. & Van. in Bull. Herb. Boiss. sér. 2, 6, 505 (1906).

CHINA: Kweichow, 2 mai 1904, Esquirol 24 (holo, D. minutum, E), Environs de la capitale, sous un grand rocher surplombant la rive d'un torrent près de Kouy-yang, fleurs roses-bleuées, 9 dec. 1897, Bodinier 2025 (holo. D. robertianum, E).

In the description of D. minutum the Esquirol collection number is given as 23. This is obviously a clerical error for 24.

In Fl. Kouy-Tchéou Léveillé cites Bodinier 2025 under D. minutum but without reference to D. robertianum.

Although this is the first time these names have been sunk into synonymy it is not without interest that Léveillé on the same page also lists the number Bodinier 2025 under D. anthriscifolium var. callervi together with Bodinier 2165 (also in Herb. Edinburgh); but he only details the field notes of the latter and gives those for B. 2025 with the citation under D. minutum.

In the Léveillé herbarium there are also Cavalerie 1197 and 2729 named D. minutum in Léveillé's hand.

55. Delphinium delavayi Franch. in Bull. Soc. Bot. Fr. 33, 379 (1886) et Pl. Delavay. 27 (1889).

D. trichophorum Franch. [var. lasiostylum Lévl.] f. brevungue Lévl. in Fedde, Rep. Sp. Nov. 7, 102 (1909) et Cat. Pl. Yunnan, 223 (1917).

CHINA. Yunnan, San-Chan, près Tchen-Hiong, 13 sept. 1905, Ten 579 (holo. D. trichophorum f. brevungue, E).

On the label of the type specimen Léveillé has actually written "var. brevungue subvar. lasiostylum". No description has been traced of D. trichophorum var. lasiostylum Lévl.

56. Delphinium eriostylum Lévl. in Bull. Herb. Boiss. sér. 2, 6, 505 (1906) et Fl. Kouy-Tchéou, 335 (1915).

CHINA. Kweichow, Koui-houa, fl. viol. 25 avril 1904, Cavalerie 2095 (synt, E); à Ta tsong du Kouy-hoa, au dessus du village, fleur violette, 25 mars, Esquirol 141 (synt. E).

57. Delphinium grandiflorum Linn., Sp. Pl. 531 (1753).

D. bonatii Lévl. in Fedde, Rep. Sp. Nov. 7, 99 (1909) et Cat. Pl. Yunnan, 223 (1917).

CHINA. Yunnan, Yunnan-sen, Tchong-chan, 29 sept. 1905, Ducloux 596 (holo. D. bonatii, E).

Maire s.n. (Delphinium annuale, cà-et-là dans les montagnes derrière Tong-tchouan, 2550-2600 m., août) in the Léveillé herbarium bears the name D. bonatii in Léveillé's hand but with its broad corymbose inflorescence it appears to be D. tatsienense Franch.

58. Delphinium maackianum Regel var. palmatum (Lévl.) Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo, 31, 433 (1911) et in Bull. Nat. Sci. Mus. Tokyo, No. 31, 29 (1952).

D. elatum L. var. palmatum Lévl. in Bull. Acad. Géog. Bot. 11, 300 (1902). D. lycoctonifolium Lévl. in Fedde, Rep. Sp. Nov. 7, 100 (1909).

KOREA. In montibus Kan-ouen-to, rara, 4 sept. 1901, Faurie 26 (holo. D. elatum var. palmatum and D. lycoctonifolium, E).

Nakai (in Journ. Coll. Sci. Imp. Univ. Tokyo, 26, 26:1909) places D. elatum var. palmatum Lévl. in synonymy under D. elatum L.

59. Delphinium tenii Lévl. in Fedde, Rep. Sp. Nov. 7, 98 (1909).

CHINA. Yunnan, Lou-fou près Tong-tchouan, juin 1906, Ten 581 (holon.v.).

 Delphinium trichophorum Franch. var. tibeticum Lévl., Pl. Seu-Tchouen 149 (1918).

In this autographed work written by Léveillé at Le Mans in 1918, he proposed the above variety ("calcar sepalis brevius"). However, he cites no material or collector and there are no specimens bearing this name in the Léveillé herbarium.

Delphinium yunnanense (Franch.) Franch. in Bull. Soc. Philom, Paris,
 173 (1893); Huth in Bot. Jahrb. 20, 465 (1895); Lévl. Fl. Kouy-Tchéou, 336 (1915).

D. denudatum Wall. var. yunnanense Franch. in Plant. Delav. 25 (1889). D. esquirolii Lévl. & Van. in Bull. Herb. Boiss. sér. 2, 6, 505 (1906).

CHINA. Kweichow, Shingny-Fou, Kiu-Kia-Tchong, fleur bleue, hauteur I mêtre et plus; se retrouve en beaucoups d'autres endroits, dauphinelle bleue, Esquirol 150; route de Long-Tchang-Kata, dauphinelle bleue, 25 sept., Esquirol 153 (synt. D. esquirolii, E).

Léveillé (in Fl. Kouy-Tchéou) sunk his own species under D. yunnanense. Esquirol 744 in the Léveillé Herbarium also bears the name D. esquirolii in Léveillé's hand.

Eranthis vaniotiana Lévl.=Sanicula rubriflora (Umbelliferae).

Myssurus heldreichii Lévl. in Bull. Acad. Géog. Bot. 11, 296 (1902);
 Halácsy, Consp. Fl. Graecae, Supp. I, 2 (1908);
 Hayek, Prodr. Fl. Penins. Balc. 1, 327 (1924);
 Rechinger fil. in Denkschr. Akad. Wiss. Wien, Math.-Nat. Klasse, 105, i, ("Fl. Aegaea"), 185 (1943).

The type of this species is not in the Léveillé herbarium at Edinburgh. Its exact status as an Aegean endemic is uncertain.

Paeonia mairei Lévl. in Bull. Acad. Géog. Bot. 25, 42 (1915); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 38 (1939); F. C. Stern, A Study of the Genus Paeonia, 79 (1946).

CHINA. Yunnan, Paeonia vivace, en touffes, fl. roses, simples ou semidoubles, pătures-brousse du Io-Chan, 3200 m., mai 1913, *Maire* s.n. (holo. *P. mairei*, E). Paeonia vivace, tuberculeuse en touffes, fl. rouges, rochers derrière Mo-tsou, 800 m., *Maire* s.n. (E).

64. Ranunculus acris Linn. Sp. Pl. 1, 554 (1753).

R. crucilobus Lévl. in Fedde, Rep. Sp. Nov. 11, 32 (1912).

R. crucilobus Lévl. var. glabratus Lévl. in Fedde, Rep. Sp. Nov. 11, 32 (1912); Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 31, 26 (1952).

R. crucilobus Lévl. var. typicus Nakai in Bull. Nat. Sci. Mus. Tokyo, No. 31, 26 (1952).

KORRA. Quelpaert in agris Mokan, mai 1911, Taquet 5342 (holo. R. crucilobus, E); in herbidis Hallaisan, 1500 m., août 1909, Taquet 2580 (holo. R. crucilobus yar. glabratus, E).

Although Nakai maintains Léveillé's species and variety and indeed adds a new variety of *R. crucilobus* (var. *chrysotrichus* Nakai) we are of the opinion that the Taquet specimens are merely Korean expressions of *R. acris* sens. lat. It is possible that they may be the same as *R. acris* var. *nipponicus* Hara in which case Léveillé's "glavarus" would be the earlier name at varietal rank, unless it has been previously used.

- Ranunculus acris var. nipponicus Hara in Journ. Fac. Sci. Tokyo, 6, 51 (1952).
- R. novus Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 389 (1906); Matsumura in Index Pl. Jap. 2, 120 (1912); Nakai in Bull. Nat. Sci. Mus. Tokyo No. 31. 26 (1952).
- JAPAN. Komagatake, 2300 m., sept. 1905, Faurie 6959 (holo. R. novus—n.v.).
- Ranunculus cantoniensis DC. Prodr. 1, 43 (1824); Hand.-Mazz.,
 Symb. Sin. 7, 1373 (1936) et in Acta Hort. Gotoburg. 13, 165 (1939);
 Ohwi, Fl. Jap. 526 (1956).
- R. petiolatus Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 389 (1906).
- R. silerifolius Lévl. in Fedde, Rep. Sp. Nov. 7, 257 (1909) et Fl. Kouy-Tchéou, 338 (1915); Hand.-Mazz., Symb. Sin. 7, 305 (1931).
- Korea. In humidis Quelpaert Tetchimeri, juill. 1908, *Taquet* 528 (holo. *R. petiolatus*, E).
- CHINA. Kweichow, Pin-fa, 20 mai 1908, Cavalerie 2792 (holo. R. silerifolius,

Tamura (in Acta Phytotax. Geobot. 16, 111:1956) sinks R. petiolatus under R. tachiroei Franch. & Sav. but an examination of the Léveilléan type shows that they differ both in leaf and fruit.

- Ranunculus dichotomus Moc. & Sessé ex DC., Syst. 1, 288 (1818);
 Lourteig in Mem. Soc. Cienc. Nat. La Salle, 16, 152 (1956).
- R. palimbifolius Weddell, Chloris Andina, 2, 303 (1861); Macbride in Publ. Field Mus. Nat. Hist. Chicago, Bot. Ser. 13 (Fl. Peru), 653 (1937). R. sodiroi Lévl. in Bull. Acad. Géog. Bot. 10, 209 (1901).
- TROPICAL AMERICA, Ouito, A. Sodiro s.n. (holo. R. sodiroi-n.v.).

We have not seen the type specimen and do not know where it is located. Macbride presumably worked from Léveillé's description and was followed in this by Miss Lourteig, who kindly informs us that she has made an unsuccessful search for the type in the Paris herbarium. Miss Lourteig is now inclined to believe that R. sodiroi is probably a form of R. praemorsus H.B.K. ex DC.

- 68. Ranunculus diffusus DC., Prodr. 1, 38 (1824); Hand.-Mazz. Symb. Sin. 7, 302 (1931) et in Acta Hort. Gotoburg. 13, 166 (1939).
- R. pseudoparviflorus Lévl. in Fedde, Rep. Sp. Nov. 12, 281 (1913) et Cat. Pl. Yunnan, 226 (1917).

CHINA. Yunnan, vallées humides derrière Tong-Tchouan, 2700 m., Ranunculus vivace rampant, fl. jaunes, petites, juin 1912, Maire s.n. (holo. R. pseudoparyilforus, E). Ranunculus felixii Lévl. in Fedde, Rep. Sp. Nov. 12, 281 (1913) et Cat.
 Pl. Yunnan, 224 (1917); Hand.-Mazz., Symb. Sin. 7, 305 (1931) et in Acta Hort. Gotoburg. 13, 142 (1939).

R. affinis R. Br. var. flabellatus Franch., Pl. Delavay. 19 (1889).

CHINA. Yunnan, Lagunes de Ie-Ma-tchouan, 3200 m., Ranunculus vivax, fl. jaunes, juill. 1912, Maire s.n. (holo. R. felixii, E).

Ranunculus ficariifolius Lévl. & Van. in Bull. Soc. Bot. Fr. 51, 289 (1904) et Lévl., Fl. Kouy-Tchéou, 338 (1915); Hand.-Mazz., Symb. Sin. 7, 298 (1931) et in Acta Hort. Gotoburg. 13, 163 (1939).

R. ficariifolius Lévl. & Van. var. crenatus Lévl. & Van. in Bull. Soc. Bot. Fr. 51, 289 (1904).

R. ficariifolius Lévl. & Van. var. ovalifolius Lévl. & Van. in Fedde, Rep. Sp. Nov. 7, 102 (1909).

R. bonatianus Ulbr. in Bot. Jahrb. 48, 621 (1913) non R. bonatii Lévl.

R. mairei Lévl. in Fedde, Rep. Sp. Nov. 13, 341 (1914) non R. mairei Lévl. (1913).

R. ficariifolius Lévl. & Van. var. erythrosepalus Lévl., Fl. Kouy-Tchéou, 338 (1915).

R. repens L. var. lopouensis Lévl. in Bull. Acad. Géog. Bot. 25, 43 (1915) et Cat. Pl. Yunnan 226 (1917).

R. vaniotii Lévl., Cat., Pl. Yunnan 226 (1917).

R. leveilleanus Ulbr. in Fedde, Rep. Sp. Nov. 28, 239 (1930).

CHINA. Kweichow, Pin-fa, lieux humides boueux, fl. jaunes, 9 mars 1902, Cavalerie 1343 (holo. var. crenatus, E). Grande grotte, envelop. exté. d'un rouge veineux, 14 août 1902, Cavalerie 629 (holo. R. ficariifolius & var. erythrosepalus, E); Pin-fa, 1902, Cavalerie s.n. (synt. var. ovalifolius, E).

Yunnan; Yunnan-sen, plaine, endroits marocageux, 21 avril 1906, Ducloux 600 (synt. var. ovalifolius, E). Vallée humide de Lou-pou, 3000 m., ranunculus vivace à demi couché, fl. jaunes petites, juin, Maire s.n. (holo. R. mairei Lévl. 1914 non Lévl. 1913, R. leveilleanus, R. repens var. lopouensis, R. vaniotii, E).

Léveillé & Vaniot based the description of R. ficariifolius on Cavalerie 629. Later (in Fl. Kouy-Tchéou) Léveillé made this specimen the type of our, erythrosepalus. When describing R. ficariifolius he made Cavalerie 1343 the type of var. crenatus but cited it under the species in Fl. Kouy-Tchéou. In 1914, a Maire specimen from Lou-pou became the type of a second R. mairei Lévl. Léveillé himself realised he had already described a species using this epithet and changed the name to R. repens var. lopouensis and to R. vaniotii. Finally Ulbrich changed it to R. leveilleanus.

 Ranunculus gmelini DC., Syst. Veg. 1, 303 (1818); Hara in Rhodora, 41, 386 (1939).

R. fauriei Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909).

Sachalin. In stagnis Vladimirof, juill. 1908, Faurie 450 (holo. R. fauriei, E).

Ranunculus labordei Lévl. et Van. in Bull. Acad. Géog. Bot. 11, 50 (1902); Lévl., Fl. Kouy-Tchéou, 338 (1915); Hand.-Mazz. Symb. Sin. 7, 301 (1931) et in Acta Hort. Gotoburg. 13, 164 (1939).

CHINA. Kweichow, environs de Tsin-gay, oct. 1897, Bodinier & Laborde s.n. (holo. E).

Ranunculus quelpaertensis (Lévl.) Nakai in Bot. Mag. Tokyo, 27, 128 (1913); Hara in Journ. Jap. Bot. 18, 459 (1942) et 30, 323 (1955).

R. repens var. quelpaertensis Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909);Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo, 31, 431 (1911).

R. vernyi Franch. & Sav. in Enum. Pl. Jap. 1, 8 (1873) nom nud. et 2, 266 (1878); Koidzumi in Bot. Mag. Tokyo 39, 314 (1925).

R. vernyi Franch. var. quelpaertensis (Lévl.) Nakai in Bot. Mag. Tokyo, 42, 21 (1928).

R. ternatus Thunb. var. quelpaertensis (Lévl.) Ohwi, Fl. Jap. 526 (1953) et in Bull. Nat. Sci. Mus. Tokyo, 33, 72 (1953).

R. hakkodensis Nakai var. quelpaertensis (Lévl.) Ohwi & Okuyama in Journ. Jap. Bot. 29, 368 (1954).

KOREA. Secus aquas Quelpaert, juill. 1907, Faurie 1734 (holo. E).

Koidzumi (Fl. Symb. Or.-Asiat. 78:1930) ascribes R. ternatus var. glaber and var. hirstuuts to Léveillé but these are varieties described by H. Boissier (Bull. Herb. Boiss. 7, 594 (1899) and there is no indication that Léveillé (Bull. Acad. Géog. Bot. 9, 216:1900) was intending to propose new varieties of his own.

Koidzumi incorrectly refers to these varieties as having been described by Boissier under R. japonicus Thunb.

Makino (in Journ. Jap. Bot. 7, 31:1931) also incorrectly attributed the epithet "glaber" to Léveillé when he proposed the combination R. glaber (Lévl.) Makino.

 Ranunculus sceleratus Linn. var. sinensis Lévl. & Van. in Bull. Herb. Boiss. 2 sér. 6, 505 (1906); Pampanini in Nuov. Giorn. Bot. Ital. 2 ser. 22, 289 (1915); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 162 (1939).

R. sceleratus L. var. depressus Lévl., Fl. Kouy-Tchéou, 338 (1915), nomen nudum.

CHINA. Kweichow, Pin Fa, 1902, Cavalerie 1758 (holo.-n.v.).

The specimen of Cavalerie 1758 has at one time been located in the Edinburgh Herbarium but was not found in the course of this work so that its true status cannot be evaluated.

 Ranunculus ternatus Thunb. Fl. Jap. 241 (1784); Finet & Gagnep. in Bull. Soc. Bot. Fr. 51, 321 (1904) et Contr. Fl. As. Or. 1, 86 (1905); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 167 (1939); Hara in Journ. Jap. Bot. 30, 323 (1955).

R. extorris Hance in Ann. Sci. Nat., ser. 5, 5, 204 (1866); Ohwi in Journ. Jap. Bot. 29, 368 (1954).

R. zuccarinii Miq. in Ann. Mus. Bot. Lugd. Bat. 3, 5 (1867); Nakai in Bot. Mag. Tokyo, 42, 22 (1928).

R. coreanus Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909); Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 31, 431 (1911).

R. taquetii Lévl. in Fedde, Rep. Sp. Nov. 9, 449 (1911).

R. vernyi var. japonicus Nakai in Bot. Mag. Tokyo, 42, 20 (1928) quoad R. taquetii Lévl. in syn. KOREA. In agris Quelpaert, mai 1907, Faurie 1729 (holo. R. coreanus, E)-Quelpaert, in herbidis Mokan, 20 mars 1908, Taquet 4551; secus vias Mokan, 21 mars 1908, Taquet 4552 (synt. R. taquetii, E).

Also in the Edinburgh Herbarium is *Taquet* 5353 which bears the name *R. coreanus* in Léveillé's hand.

76. Ranunculus trichophyllus Chaix in Vill., Hist. Pl. Dauph. 1, 335 (1786). Batrachium trichophyllum (Chaix) V. d. Bosch, in Prodr. Fl. Bat. 1, 5 (1850); Hand.-Mazz. in Acta Hort. Gotoburg. 13, 167 (1939). R. trichophyllus Chaix var. chanetii Lévl. in Fedde, Rep. Sp. Nov. 11,

trichophyllus Chaix var. chanetii Levl. in Fedde, Rep. Sp. Nov. 11 496 (1913).

CHINA. Yunnan, Pe-Tche-Ly, ruisseau des montagnes du Ping-Chan, 15-16 juin 1908, L. Chanet 242 (holo. R. trichophyllus var. chanetii, E).

Ranunculus yunnanensis Franch. in Bull. Soc. Bot. Fr. 32, 5 (1885) et
 Pl. Delavay. 20 (1889); Hand.-Mazz., Symb. Sin. 7, 309 (1931) et in
 Acta Hort. Gotoburg. 13, 144 (1939).

R. mairei Lévl. in Fedde, Rep. Sp. Nov. 12, 281 (1913) non (1914) et Cat. Pl. Yunnan, 226 (1917).

CHINA. Yunnan, lagunes et plateaux de Lou Pou et de Ta-Hai, 3200 m., Ranunculus vivace, fl. jaunes, juill., *Maire* s.n. (holo. *R. mairei* (1913 non 1914), E).

Semiaquilegia adoxoides (DC.) Makino in Bot. Mag. Tokyo 16, 119 (1902); Drumm. & Hutch. in Kew Bull. 165 (1920).

Isopyrum tuberosum Lévl. in Fedde, Rep. Sp. Nov. 7, 340 (1909). Isopyrum leveilleanum Nakai in Bot. Mag. Tokyo 26, 323 (1912). Aquilegia adoxoides (DC.) Ohwi, Fl. Jap. 533 (1953).

KOREA. Quelpaert, Hongno, secus torrentes, avril 1908, Taquet 510; Nokatji, in sylvis, mai 1908, Taquet 507 (synt. I. tuberosum. E); in humidis silvarum Hallaisan, mai 1907, Faurie 1724 (iso. I. leveilleamum, E).

Taquet 510 has the MSS name I. coreanum in Léveillé's handwriting and Taquet 507 is annotated I. tuberosum. Léveillé evidently decided they were conspecific and validly described them as I. tuberosum. In their "Revision of Isopyrum and its nearer Allies" Drummond & Hutchinson index I. leveilleanum as equalling Emenior raddeanum. This is probably a clerical error in the index for they cite Faurie 1724 correctly under Semiaquillegia adoxoides.

- Thalictrum aquilegifolium Linn. Sp. Pl. 1, 547 (1753) var. intermedium Nakai in Journ. Jap. Bot. 13, 475 (1937); Hara in Journ. Fac. Sci. Univ. Tokyo, sect. iii, 6, 55 (1952); Tamura in Acta Phytotax. Geobot. 15, 81 (1953).
- T. anomalum Lévl. et Van. in Bull. Soc. Bot. Fr. 53, 388 (1906).

T. kamikawense Lévl. et Van. in Bull. Soc. Bot. Fr. 53, 388 (1906).

JAPAN, Ontake, 2500 m., sept. 1905, Faurie 6947 (holo. T. anomalum—n.v.). No specimen is cited by Léveillé & Vaniot under the description of T. kamikawense.

Hara says that T. kamikawense and T. anomalum are connected with T. aquilegifolium var. sibiricum through intermediate forms. Ohwi

Flora of Japan, 530:1953) treats both var. *intermedium* and var. *sibiricum* as synonymous with *T. aquilegifolium* Linn.

Thalictrum aquilegifolium var. sibiricum Rgl. et Til., Fl. Ajan, 23 (1858); Hara in Journ. Fac. Sci. Univ. Tokyo, sect. iii, 6, 55 (1952);
 Tamura in Acta Phytotax. Geobot. 15, 82 (1953).

T. contortum L. Sp. Pl. 1, 547 (1753).

T. taquetii Lévl. in Fedde, Rep. Sp. Nov. 7, 100 (May 1909).

T. taquetii Lévl. in Fedde, Rep. Sp. Nov. 7, 339 (Dec. 1909), non praec. T. dunnianum Lévl. in Fedde, Rep. Sp. Nov. 8, 549 (1910).

T. aquilegifolium L. sec. Boivin in Journ. Arn. Arb. 26, 117 (1945).

Korea. Quelpaert, in rupibus Hallaisan, 1800 m., août. 1907, Faurie 1720; in herbidis Hallaisan, 1800 m., août 1907, Faurie 1721; Ouen-san, août 1901, Faurie s.n. (synt. T. taquetii (mai 1909) E); in sepibus Hallaisan, 2000 m., 13 août 1908, Taquet 508 (holo. T. taquetii (dec. 1909) and T. daminiamm.

Faurie 158 also belongs here.

See note under T. aquilegifolium var. intermedium. Kitagawa (in Rep. Inst. Sci. Res. Manchoukuo, 3, App. i, 226:1939) treats these Léveilléan names as synonymous with T. aquilegifolium Linn. subsp. asiaticum (Nakai) Kitagawa.

- Thalictrum cirrhosum Lévl. in Fedde, Rep. Sp. Nov. 7, 97 (1909) et Cat. Pl. Yunnan, 226 (1917); Boivin in Journ. Arn. Arb. 26, 112 (1945).
 CHINA. Yunnan, Yunnan-Sen, Mont Tchong-Chan, roches, 19 juill. 1905, Ducloux 604 (holo. E).
- Thalictrum coreanum Lévl, in Bull, Acad. Géog. Bot. 11, 297 (1902);
 Finet & Gagnep. in Bull. Soc. Bot. Fr. 50, 625 (1903) et Contr. Fl. As.
 Or. 1, 66 (1905);
 Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo, 26, Art.
 i, 14 (1909);
 Boivin in Journ. Arn. Arb. 26, 116 (1945);
 Kitagawa in Journ. Jap. Bot. 36, 18 (1961).

T. ichangense Lecoy. race coreanum (Lévl.) Lévl. in Fedde, Rep. Sp. Nov. 7, 100 (1909).

T. ichangense Lecoy. var. coreanum Lévl. apud Tamura in Acta Phytotax. Geobot. 15, 83 (1953).

KOREA. Ouen-san, in petrosis montium, 4 juill. 1906, Faurie 150 (E); in rupibus montis des diamants, juin 1906, Faurie 151 (E); in montibus interioris regionis, rara videtur, sept. 1901, Faurie 23, (holo. E).

In his description of *T. coreanum*, Léveillé did not cite any exsiscatae and the only specimen in Edinburgh to bear the name *T. coreanum* in Léveillé's hand is *Faurie* 23.

83. Thalictrum declinatum Boivin in Rhodora, 152, 364 (1944).

T. clavatum DC. var. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 7, 257 (1909) et Fl. Kouy-Tchéou, 339 (1915).

CHINA. Kweichow, Ma-jo, avril-mai 1908, Cavalerie 3003 (holo. T. clavatum var. cavaleriei, E).

Also belonging to *T. declinatum* are *Cavalerie* 2431 & 3004. Dr. Boivin has confirmed (in litt.) that these three collections are the same as his species.

Thalictrum delavayi Franch. in Bull. Soc. Bot. Fr. 33, 367 (1886);
 Boivin in Journ. Arn. Arb. 26, 113 (1945).

var. delavayi.

T. delavayi Franch. var. parviflorum Franch. Pl. Delavay. 11 (1889).

T. duclouxii Lévl. in Fedde, Rep. Sp. Nov. 7, 98 (1909) et Fl. Kouy-Tchéou, 329 (1915) et Cat. Pl. Yunnan, 226 (1917).

CHINA. Kweichow, ravines derrière He-hong-Tan, 23 juill. 1904, *Ducloux* 606; sommet du mont Tchong-chan, fl. violettes, 30 juill. 1905, *Ducloux* 781 (synt. *T. duclouxii*, E).

We have seen the Paris types of T. delavayi and T. dipterocarpum Franch. and agree with Boivin's treatment of T. duclouxii as a synonym of T. delavayi.

We have examined also several other collections which are intermediate between Franchet's two species, and it appears that these species may also be conspecific although Franchet described them both at the same time. As the question of the status of T. dipterocarpum does not fall within the scope of this work, however, we leave it and T. delaryaj as distinct.

Thalictrum esquirolii Lévl. & Van. in Bull. Acad. Géog. Bot. 17, no. 210-211, p. ii (1907); Lévl., FI. Kouy-Tohéou, 339 (1915); Hand.-Mazz., Symb. Sin. 7, 311 (1931) et in Acta Hort. Gotoburg. 13, 171 (1939); Boivin in Journ. Arn. Arb. 26, 111 (1945).

T. tofieldioides Diels in Notes R.B.G. Edinb. 5, 263 (1912) (holo. Forrest 2149).

T. nudum Lévl. & Van. ex Hand.-Mazz., Symb. Sin. 7, 311 (1931) pro syn. CHINA. Kweichow, Tsin Tchen, Gan-pin, lieux humides, 2 mai 1906, Esquirol s.n. (holo. T. esquirolii, E).

The specimen of Esquirol s.n. although cited as *T. esquirolii* by Léveillé only bears the name *T. nudum* in his hand. From his herbarium there are also one Maire collection, *Simeon Ten* 577 and *Ducloux* 603 which belong here.

 Thalictrum foeniculaceum Bunge in Mem. Sav. Étrang. Acad. Sci. St. Petersb. 2, 76 (1833);, Drumm. & Hutch. in Kew Bull. 169 (1920);
 Kitagawa, Rep. Inst. Sci. Res. Manch. 3, App. I, 227 (1939); Sealy in Hook. Icon. Plant. 35, t. 3428 (1943).

Isopyrum trichophyllum Lévl. in Fedde, Rep. Sp. Nov. 9, 224 (1911) et in Bull. Acad. Géog. Bot. 27, 83 (1912) et Cat. Pl. Yunnan, 225, f. 57 (1917). CHINA. Yunnan, Pe-Tche-Ly, Kiu Yang, août 1910, L. Chanet 547 (holo. T. trichophyllum, E).

87. Thalictrum grandisepalum Lévl. in Bull. Acad. Géog. Bot. 2, 297 (1902).
Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 26, Art. i, 16 (1902);
Finet & Gagnep. in Bull. Soc. Bot. Fr. 50, 614 (1903) et Contr. Fl. As. Or. 1, 55 (1905);
Boivin in Journ. Arn. Arb. 26, 113 (1945);
Tamura in Acta Phytotax. Geobot. 15, 81 (1934)

Korea. Secus decursus aquarum basi montium, flores juill., août 1901, Faurie 20 (holo. T. grandisepalum, E).

Faurie 155 also belongs to this species. Boivin places T. grandisepalum as a provisional synonym of T. delavayi Franch, having seen a fragment

of the type. Examination of the complete specimen leads one to the conclusion that they cannot be conspecific. The achenes of the specimens of *T. grandisepalum* are immature but it is a much stouter plant than *T. delavayi* which is confined to S.W. China.

 Thalictrum javanicum Blume, Bijdr. Fl. Ned. Ind. 2 (1825); Boivin in Journ. Arn. Arb. 26, 115 (1945).

T. argyi Lévl. in Bull. Herb. Boiss. sér. 2, 6, 504 (1906), et in Mem. Real. Acad. Cienc. Art. Barcelona, 12, No. 22, 19 (1916).

CHINA. Kiang-Sou, montagnes, Gong-Chan, d'Argy s.n. (holo. T. argyi, E).

 Thalictrum mairei Lévl. in Fedde, Rep. Sp. Nov. 7, 339 (1909); Boivin in Journ. Arn. Arb. 26, 117 (1945).

CHINA. Yunnan, vallées des mont. á Pe long tsin, ancolie vivace en touffes dressées, fl. blanc-verdâtre, 3000 m., juin, Maire s.n. (E).

Although in his original description Léveillé cites *Maire* 388 (Yunnan montagnes, Sept. 1905) the only specimen in Herb. Lévl. annotated *T. mairei* in Léveillé's own hand is that cited above.

Thalictrum minus var. elatum Lec. in Bull. Soc. Bot. Belg. 24, 202 (1885); Finet & Gagnep. in Bull. Soc. Bot. Fr. 50, 620 (1903) et Contr. Fl. As. Or. 1, 61 (1905); Boivin in Journ. Arn. Arb. 26, 111 (1945).

T. amplissimum Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 51 (1902).
"T. minus Linn. var. majus Crantz"; Lévl. in Bull. Acad. Géog. Bot. 11, 297 (1902).

T. minus Linn. var. amplissimum (Lévl. et Van.) Lévl., Fl. Kouy-Tchéou, 339 (1915)

CHINA. Kweichow, Mont. du Collège, commun dans la montagne, grandes feuilles, 29 juill. 1897, 1 août 1899, *Bodinier* 1733 (holo. *T. amplissimum*, E).

 Thalictrum sachalinense Lec. in Bull. Soc. Bot. Belg. 24, 152, tab. III, fig. 6 (1885); Koidzumi in Bot. Mag. Tokyo 39, 19 (1925); Tamura in Acta Phytotax. Geobot. 15, 82 (1953).

T. fauriei Lévl. & Van. in Bull. Soc. Bot. Fr. 53, 388 (1906) non Lévl. (1909).

T. neo-sachalinense Lévl. in Fedde, Rep. Sp. Nov. 7, 101 (1909).

JAPAN. Insula Yezo in planitie Kamikawa, juill. 1905, Faurie 6941 (holo. T. fauriei (1906)—n.v.).

Sachalin. In herbidis Vladimirof, juill.-août 1908, Faurie 442 (holo. T. neo-sachalinense, E).

The achenes in the specimen cited above are distinctly stipitate with stalks approaching 0.5 mm. long. Lecoyer in his original description, whilst illustrating sessile achenes, describes them as sessile or subsessile.

Thalictrum trichopus Franch. in Bull. Soc. Bot. Fr. 33, 370 (1886);
 Boivin in Journ. Arn. Arb. 26, 114 (1945).

T. tenii Lévl. in Fedde, Rep. Sp. Nov. 7, 98 (1909) et Cat. Pl. Yunnan, 227 (1917).

CHINA. Yunnan, Lou-Fou, près Tong Tchouan, juin 1907, Ten 584 (holo. T. tenii, E).

 Thalictrum tuberiferum Maxim. in Bull. Acad. Sci. St. Petersb. 22, 227 (1876); Boivin in Journ. Arn. Arb. 26, 117 (1945).

T. punctatum Lévl, in Fedde, Rep. Sp. Nov. 10, 376 (1912).

T. fauriei Lévl. in Fedde, Rep. Sp. Nov. 7, 100 (1909) nec Lévl. & Van. in Bull Soc. Bot. Fr. 53, 388 (1906) nec Hayata in Journ. Coll. Sci. Tokyo 22, 7 (1906).

Korea. Quelpaert, Hallaisan, in sepibus crateris, 2000 m., 13 août 1908, Taquet 513; secus torrentes, 1500 m., juill. 1909, Taquet 2565 (synt. T. punctatum, E); in silvis, juill. 1907, Faurie 1722 (holo. T. fauriei (1909), E).

Tamura (in Acta Phytotax. Geobot. 15, 84:1953), treats these two Léveilléan species as synonyms of T. filamentosum Maxim., whilst he follows Ohwi in regarding T. tuberiferum Maxim. as a variety of T. filamentosum under the name var. tenerum (Boiss.) Ohwi (Flora of Japan 531:1953).

The type of *T. fauriei* Lévl. & Van. (1906) is *Faurie* 6941 (see *T. sachalinense* Lecoy.); the syntypes of *T. fauriei* Hayata are from Formosa, and have not been seen in this revision.

Thalictrum virgatum Hook. f. & Thoms., Fl. Ind. 1, 14 (1855); Lévl. in Fedde, Rep. Sp. Nov. 7, 99 (1909) et Cat. Pl. Yunnan, 227 (1917); Boivin in Journ. Arn. Arb. 26, 115, Pl. I, figs. 25-27 (1945).

T. verticillatum Lévl. in Fedde, Rep. Sp. Nov. 7, 97 (1909).

CHINA. Yunnan, Yunnan-Sen, sommet du Tchong-Chan, roches, 10 août 1904, Ducloux 602 (holo. T. verticillatum, E).

Léveillé himself recognised *T. verticillatum* as conspecific with *T. virgatum* and reduced it accordingly. There are three Maire specimens in Edinburgh which belong here.

Trollius yunnanensis (Franch.) Ulbrich in Fedde, Rep. Nov. Sp. Beih.
 368 (1922); Stapf in Bot. Mag. 152, tab. 9143 (1928).

T. pumilus var. yunnanensis Franch., Pl. Delavay. 23 (1889).

T. saniculifolius Lévl. in Bull. Acad. Géog. Bot. 25, 43 (1915) et Cat. Pl. Yunnan, 227 (1917).

CHINA. "Yunnan, sommet du Io-Chan, 3200-3400 m. 1912, E.E. Maire". (No specimen with this field note seen).

In the Léveillé Herbarium at Edinburgh the only specimen annotated in Léveillé's hand is E.E. Maire s.n. "ranunculus vivace, fl. jaunes, grandes, pâturages humides de Lan-ngi-tsin, 3200 m., juillet' but it is named in Léveillé's hand "Anemone saniculfolia". There are two specimens from Io-Chan but their field notes do not quite coincide with those of Léveillé's protologue. Is it possible that Léveillé published a combined field note with his original description and the 3 specimens in Edinburgh are syntypes?

Stapf, when dealing with T. yunnanensis in the Botanical Magazine regarded T. saniculifolius as a possible synonym and in his discussion recognised two forms of T. yunnanensis and it may be that Léveille's species is at most a form with more divided leaves. Further in this connection it is interesting to note that the Edinburgh material of T. stenopetalus Stapf has been annotated in the past as an unpublished combination under T. yunnanensis at the rank of forms.

Urophysa henryi (Oliv.) Ulbrich in Notizbl. Bot. Gart. Berl. 10, 870 (1929).

Isopyrum henryi Oliv. in Hook. Icon. Pl. t. 1745 (1888); Lévl., Fl. Kouy-Tchéou, 336 (1915).

Anemone boissiaei Lévl. & Van. in Bull. Acad. Géog. Bot. 11, 47 (1902). Aquillegia henryi (Oliv) Finet & Gagnep. in Bull. Soc. Bot. Fr. 51, 411 (1904) et Contr. Fl. As. Or. 1, 154 (1905); Lévl. & Van. in Bull. Acad. Géog. Bot. 15, p. viji (1905).

Isopyrum boissiaei (Lévl. & Van.) Ulbr. in Bot. Jahrb. 36, Beibl. 80, p. 6 (1905).

Semiaquilegia henryi (Oliv.) Drumm. & Hutch. in Kew Bull. 166 (1920). CHINA. Kweichow, entre Gan-pin et Tsin-tchen dans les hautes rocailles abruptes, fleurs blanches, rare, 17 mars 1898, Martin & Bodinier 2120 (holo. Anemone boissiaei, E); Pin-fa, rochers de la rivière, Pai-tchen, 17 fév. 1903, Cavalerie 864 (incorrectly cited by Ulbrich as the type of A. boissiaei.

Doubtful Taxa

Aquilegia fauriei Lévl. (1902) non 1906. See no. 24. Delphinium trichophorum Franch. var. tibeticum Lévl. See no. 60.

ILLICIACEAE

Illicium majus Hook. f. & Thoms. in Hook. f., Fl. Brit. Ind. 1, 40 (1872); A. C. Smith in Sargentia, 7, 47 (1947).

Glochidion cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 12, 183 (1913) et Fl. Kouy-Tchéou, 163 (1914).

Illicium cavalerie (Lévl.) Lévl. in Le monde des Plantes, 18, no. 103, 31 (1916).

"I griffithii Hook. f. & Thoms."; Rehder in Journ. Arn. Arb. 17, 323 (1936).

CHINA. Kweichow, Pin-fa, ruisseau de La-tong, la graine du Pa-ko, cultivé, 1 août 1902, Cavalerie 578 (holo. I. cavaleriei, E).

SCHISANDRACEAE

Kadsura coccinea (Lem.) A. C. Smith in Sargentia, 7, 166 (1947).
 K. chinensis Hance ex Benth., Fl. Hongkong, 8 (1861); Lévl., Fl. Kouy-Tchéou, 269 (1915); Rehder in Journ. Arn. Arb. 10, 190 (1929).

K. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9, 459 (1911).

CHINA. Kweichow, Pin-fa, longue liane près des cascades, fleur rougerose, rare, juill. 1908, Cavalerie 3046 (holo. K. cavaleriei, E).

Schisandra henryi C. B. Clarke in Gard. Chron. ser. 3, 38, 162, fig. 55 (1905); Rehder in Journ. Arn. Arb. 10, 191 (1929).
 var henryi.

S. hypoglauca Lévl. in Fedde, Rep. Sp. Nov. 9, 459 (1911) et Fl. Kouy-Tchéou, 270 (1915) et Cat. Pl. Yunnan, 175 (1916).

S. henryi var. typica A. C. Smith in Sargentia, 7, 114, (1947).

CHINA. Kweichow, liane, fleurs jaunes, 7 mai 1904, Esquirol 58 (holo. S. hypoglauca, E).

 Schisandra propinqua (Wall.) Baill. var. sinensis Oliv. in Hook. Ic. Pl. 18, t. 1715 (1887); Rehder in Journ. Arn. Arb. 10, 191 (1929); A. C. Smith in Sargentia, 7, 153 (1947).

Embelia valbrayi Lévl., Cat. Pl. Yunnan, 177 (1916).

CHINA. Yunnan, rochers de La-kou, 2400 m., arbuste rampant, fl. jauneorange, juill., *Maire* s.n.; rochers derrière La-kou, 2500 m., arbuste grimpant, toujours vert, fl. jaunes, sept., *Maire* s.n. (synt. *Embelia valbrayi*, E).

In the protologue of *E. valbrayi*, Léveillé uses a composite field note for the two specimens although the name is written in Léveillé's hand only on the second specimen cited above.

MAGNOLIACEAE

 Michelia leveilleana Dandy in Kew Bull. 263 (1927); Rehder in Journ. Arn. Arb. 10, 190 (1929).

M. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9, 459 (1911) et Fl. Kouy-Tchéou, 270 (1915), non Finet & Gagnep. (1906).

CHINA. Kweichow, Ma-jo, arbre, fleurs bleues, odorantes, avril 1908, Cavalerie 8045; Lou-Mong-Touan, mai 1908, Cavalerie 3045 (synt. Michelia cavaleriei Lévil. E).

Although, by number, Léveillé only cites Cavalerie 3045, two collections are given in the protologue; the specimen of that from Ma-jo, also labelled M. cavaleriei in Léveillé's hand, clearly bears the number 8045.

102. Michelia martinii (Lévl.) Lévl., Fl. Kouy- Tchéou, 270 (1915); Dandy in Kew Bull. 263 (1927); Rehder in Journ. Arn. Arb. 10, 190 (1929). Magnolia martinii Lévl. in Bull. Soc. Agric. Sci. Arts Sarthe 39, 321 (1904). Michelia bodinieri Finet & Gagnep. in Bull. Soc. Bot. Fr. 53, 574 (1906). CHINA. Kweichow, environs de Gan-pin, à Leang-chouy-tsin, grand arbre, suspendu à mi-côte au dessus d'un gouffre profond de 300 pieds, fleurs blanc-crême, très rare, 9-20 fev. 1898, Martin & Bodinier 2066 (holo. Michelia bodinieri & Magnolia martinii, E).